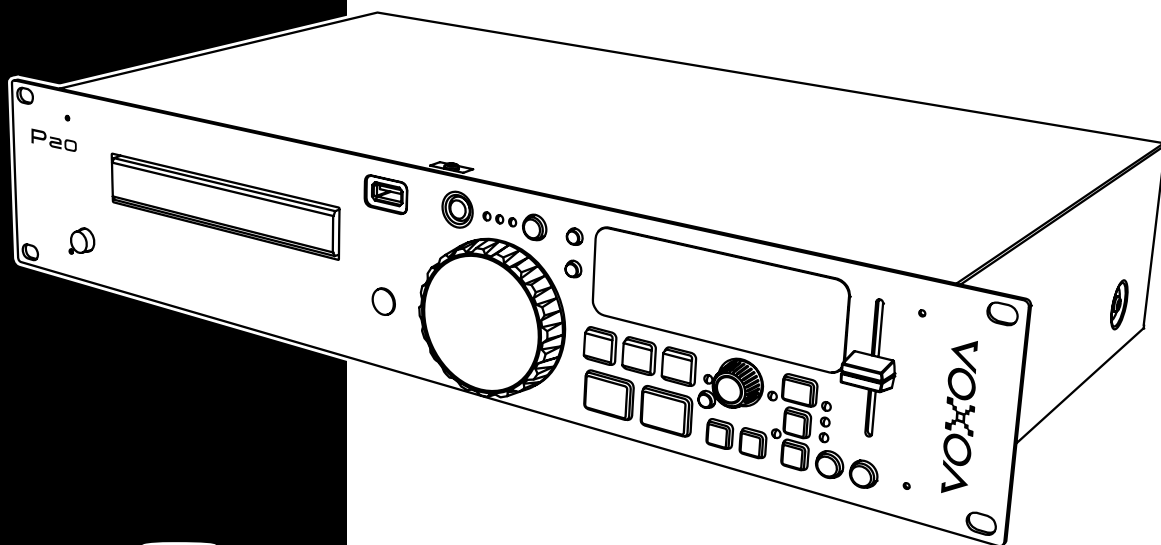


VOXOA

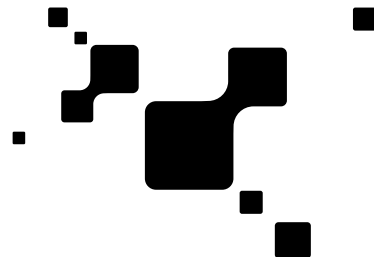


P20

CD/MP3 Player
with USB

CD/MP3 USB播放器

User Manual
使用说明书



重要安全指示 04

产品特色 06

 主要特色 06

 功能与特色 07

连接方式 09

部件名称与功能 10

 前面板 10

 后背板 13

 显示屏幕 14

 遥控器 16

功能设定选单 18

操作控制 19

VOXOA TUNEBOX资料库建立软件 21

规格 24

ENGLISH

IMPORTANT SAFETY INSTRUCTIONS 26

FEATURES 28

 MAIN FEATURES 28

 FEATURES & FUNCTION 29

CONNECTIONS 30

PART NAMES AND FUNCTIONS 32

 FRONT PANEL 32

 REAR PANEL I 35

 DISPLAY 36

 REMOTE CONTROLLER 38

UTILITY MENU 41

OPERATIONS 42

VOXOA TUNEBOX SOFTWARE 45

SPECIFICATIONS 48

重要安全指示

1. 阅读说明书 - 操作本产品前应先阅读所有安全性及操作说明。
2. 保留说明书 - 安全性及操作说明应妥善保存供未来参考用。
3. 留心警告 - 所有在本产品及操作说明上的警告都要遵守。
4. 参照说明书 - 需参照所有操作及使用说明。
5. 水和湿气 - 在操作本产品时绝对不要靠近水-例如靠近浴缸、脸盆、洗碗槽、洗衣盆、游泳池、及在潮湿地下室等等。禁止将装有异体的容器，例如花瓶，酒瓶等至于本产品上。
6. 移动平台及固定台面 - 本产品只能使用在制造商所建议的移动平台及固定台面。本产品与移动平台的组合在移动时应特别注意。突然地停止，过大的外力及不平衡的表面，都会造成本产品^{在移动平台上翻覆。}
7. 墙壁或天花板架置 - 本产品应只参照制造商所建议的方式来架置在墙壁或天花板上。
8. 高温 - 本产品应远离热气来源，例如散热器、暖器、火炉或者其他会产生高温的用品(包含扩大机)。
9. 电源 - 本产品只能照电压标签所示来操作。如果你不确定你住家的电源的种类，请咨询你的产品卖家或当地电力公司。若本产品需要用电池或其他电源，请参照操作说明书。
10. 接地与电极 - 本产品可能供给极化交流电插头。插头只有一个方向插入插座。这是一个安全装置，如果没办法完全插入插座，请试著把插头反方向。如果插头仍无法插入插座，请连络电工来更换插座，请勿损坏安全性为考量的插头。
11. 电源线的保护 - 电源供应线应该妥善规划布线的路径，避免被其他物件所缠绕。应特别注意所使用的插座是否与电源供应线的插头吻合，这插座要靠近本产品的使用地点。
12. 清洁 - 本产品须依照制造商所建议的方式做清洁。清洁本产品应使用柔软的乾布清洁。
13. 交流电供电零件 - 维修完成后在交还产品给使用者前，应使用电阻测量表测量交流电插头及所有暴露在外的金属零件，电阻值应大于100k欧姆。
14. 长时间未使用 - 本产品在长时间未使用的状况下，应将插头拔除。
15. 物体及液体进入 - 小心不要让物体掉入及液体流进本产品里。
16. 损坏需求服务 - 当A.电源线或插头已经毁损；或B.异物或液体掉进本产品；或C.本产品暴露在雨中；或D.操作或功能不正常；或E.本产品被摔落或内部损坏时，应送回合格的服务人员处进行维修。
17. 售后服务 - 除了操作说明书所提到的正常操作外，使用者不应进行其他不当操作或试图自行维修。当本产品有问题时应请教合格的维修服务人员或送回合格的维修站进行维修服务。

重要安全指示

18. **保持本产品在空中流通的环境中** - 本产品上的散热孔提供流通的空气，以避免本产品在操作时产生过热的现象。这些为保持本产品空气流通的散热孔严禁被阻隔或被其他物品覆盖。特别是较柔软的表面，例如床，沙发及地毯等等。本产品不应被安装在内建的空间内，例如书橱及架子，除非能够依制造产商所规范的空气流通指示建构。
19. **连接安装** - 请勿安装非本产品制造商所建议的连接器材，以避免本产品遭受损害。
20. **配件** - 请勿将本产品放置在不稳定的移动推车，三角架，支撑架或桌子上。本产品可能会掉落因而使小孩或是成人受伤，并且本产品会受到严重的损害。只能使用制造商所建议的移动推车，三角架，支撑架或桌子，或是与本产品一起销售的配件。必须依制造商指示安装本产品，并且安装的配件必须使用制造商所建议的。
21. **闪电** - 为保护本产品风雨期间不受到闪电的影响及侵害，当本产品长时间不使用时将插头拔除，并拆除天线。这将保护本产品免于受到闪电及电源突然增加的损害。
22. **替换零件** - 当需要替换零件时，请确保维修技术人员使用制造商所指定的零件或是与原零件具有相同特性的替代品。未经授权的替代零件会导致过热着火，电磁冲击或其他严重的损害。
23. **安全性检查** - 本产品在进行维修或任何服务时，请要求维修服务人员安全性检查，以确保产品在正确地操作状况下。

警告

严禁本产品暴露在下雨及潮湿的环境之中，以降低起火及触电的危险。本产品避免暴露在会滴水及会溅到水的环境中。装有液体的容器绝对禁止放在本产品上，例如酒瓶，花瓶等等。



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



注意:严禁打开机盖以降低触电的风险。维修及更换零件请咨询维修中心合格的维修工程师。



三角形中有个箭头的闪电标志是为了警告在产品内部因未绝缘而可能产生的高压电，这高压电会造成触电的危险。



三角形中有个惊叹号是为了提醒使用者重要的操作及维护指示。

注意

为了杜绝触电的危险，请勿使用不合规格的插座。应使用插头能够完全插入插座的插孔。

产品特色

- 主要特色

播放MP3的档案

P20 可以读取与显示烧录在光盘的MP3档案，可以由单一的光盘上储存更多的音乐，大幅增加一张光盘可以播放的时间。透过内建的档案搜寻系统，档案可以被很快地找寻。除此之外MP3档案的ID3标签，可以显示在屏幕上，便于音乐的找寻与使用。

MP3 档案搜寻系统与CD文字显示

越来越多的MP3音乐档案，要找寻实在不容易。P20 内建MP3档案搜寻系统，让你从众多的档案中能够快速的找寻，你可搜寻档案依照歌手名称，歌曲名称或是由档案夹名称来找寻。除此之外，MP3 ID3 Tag与Audio CD Text，可支援显示在超大易于阅读的显示屏幕上，让搜寻歌曲的操作更为容易。

支援外接USB设备

在现今数码时代，USB设备成为最便利的音乐储藏收集设备。P20具有两个USB连接接口，一个在前面版，另一在背版，支援外接的USB大量储存设备。你可以连接U盘或是USB外接硬盘，储存MP3/WAV档案多达999个资料夹，每个资料夹可以有多达999个档案。

VOXOA TUNEBOX 软件

支援VOXOA TUNEBOX软件可以使得读取与搜寻大量的档案变得更为快速与容易。VOXOA TUNEBOX软件可以一次性的扫描所有储存在你外接USB设备的音乐档案，然后建立一个资料库档案加快读取速度。

红外线遥控器

内附红外线遥控，让你不在播放器旁也能控制播放器，对于小型营业场所Lounge Bar、音乐餐厅、娱乐场所提供了非常大的便利与移动性。

抗震缓冲内存

使用抗震缓冲内存来避免因震动所引起的音乐播放中断。缓冲内存的设计，播放器不因外力的震动所影响，以确保音乐在播放的过程中能够持续不间断的播放。

无缝循环与快捷循环(Hot Loop)

透过无缝循环的功能，任何音乐的段落能在起始点(In Point)与结束点(Out Point)间不断地重复播放。在循环播放下，按下IN点键，会立即从IN点播放，连续按IN点键可产生特殊的效果。

播放速度控制与控制范围

高精度度推子，确保播放速度的调整的方便性与准确性。播放速度控制的范围包含+/- 4%，+/-8%，+/-16%，+/-100%(CDDA)。

产品特色

音调锁定(Key Lock)

当你调整歌曲播放速度时，音调锁定功能可以锁定歌曲音乐的音调。你可以加快或减慢歌曲播放速度，音乐的音调丝毫不会受到播放速度的改变而有变化。

- 功能与特色

播放器

- 标准19英寸 2U 机架式
- 高信赖性缓冲内存防震动播放
- 自动及手动节拍计算器
- 红外线遥控器

媒体种类

- 支援CD/MP3 播放及文字显示
- 两个USB 插口可外接USB储存设备
- 支援ID3 TAG与光盘歌曲文字显示

播放功能

- 立即读取技术
- 单曲与连续播放模式

乐资料搜寻

- 歌曲与资料夹搜寻系统
- 一祯一祯精确搜寻
- 支援VOXOA TUNEBOX软件，让USB设备的音乐资料能快速搜寻
- 显示音乐档名与资料夹名称

Cue点/音乐循环

- 自动Cue点功能设定每首音乐起始点
- 无缝的循环(Loop)与再循环(Reloop)功能
- 循环拨放中，IN点键可做HOT LOOP操作

产品特色

速度调整

- 可调整播放速度范围 $\pm 4\%$, $\pm 8\%$, $\pm 16\%$, $\pm 100\%$ (CDDA)
- 高品质速度控制推子
- Pitch bend 增加减少控制按钮
- Pitch bend可调整到 $\pm 100\%$
- 音调锁定能够让音乐速度改变但不会影响到音乐原本的音调

转盘

- 高品质2.4” 转盘
- 转盘可用来做Pitch Bend与每帧(Frame Search)搜寻

显示屏幕

- 超大高量显示屏幕能够显示重要功能
- 显示目前播放位置
- 已播放/剩余时间显示
- 显示MP3档案ID3 Tag 及档案夹名称便于找寻
- 文字显示档案夹名称

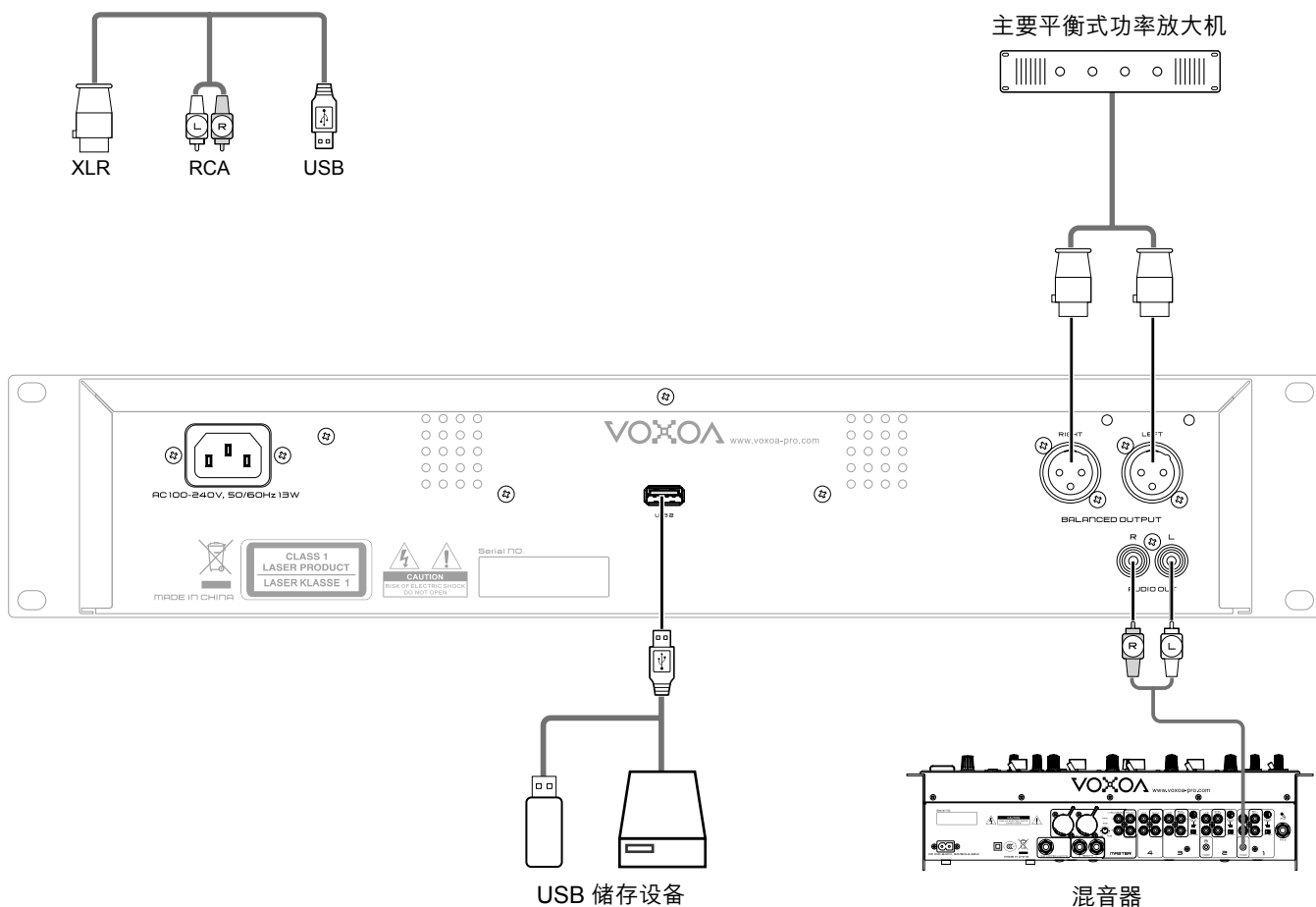
输出

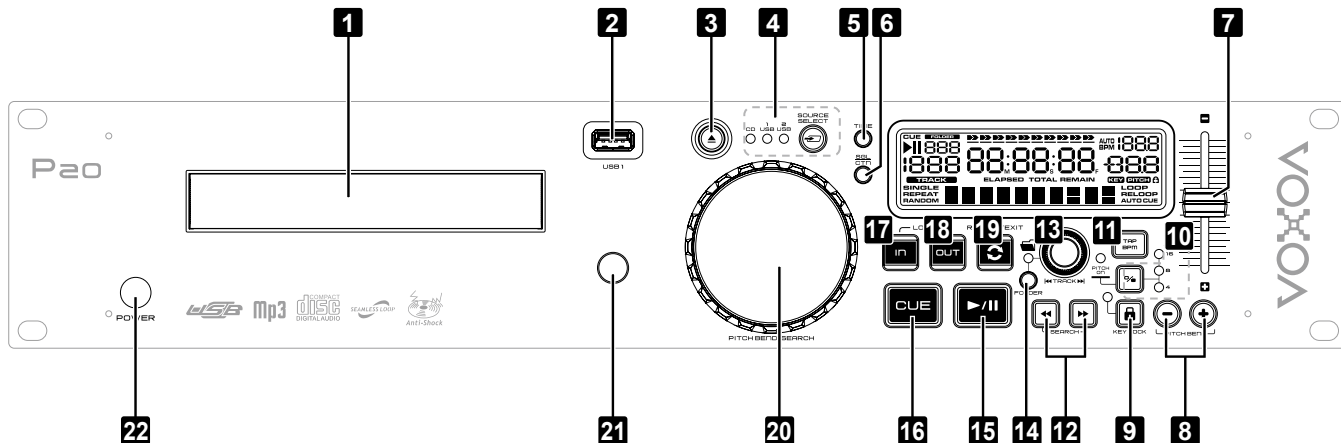
- 类比RCA输出
- 平衡式XLR 输出

连接方式

1. 在进行连接前，请务必关掉电源开关，拔下插头。
2. 高品质的连接线可以提高保真度，为使本产品产生最好的声音品质，尽请使用高品质的音讯连接线。
3. 不要使用过长的连接线。并确保插头与插座是稳固的连接，若插头与插座连接过松，会造成哼声，杂讯，或是断断续续的声音输出，这将会对你的喇叭，造成极大的危害。
4. 使用RCA音讯连接线，连接本器材与混音器。

注意：请务必使用所提供的接线，使用其他类型的连接缆线恐会导致危险。





1. 光盘托盘

这个托盘用来载入或是卸载光盘，打开或关闭托盘请按退片键。电源关闭时，切勿强制打开或关闭托盘。

2. USB1连接插口 (U盘插口)

此插口用来外接U盘或是USB周边。

注意：请先开启电源，再插上USB周边。

3. 退片键(DISC EJECT)

按下此按钮将光盘退出。为了避免在音乐播放时误触此键而造成音乐中断，退出光盘的功能，只有在播放暂停的状态下，才能够使用。

4. 音乐来源选择按钮

用此按钮选择切换三种不同的音乐来源包含CD/USB1/USB2，当一打开电源开关时，内定的模式是CD。

5. 播放时间显示模式切换按钮

切换显示屏幕上时间的表示方式。

- ELAPSED 表示目前已播放的时间
- REMAIN 表示剩馀多少时间
- TOTAL REMAIN 表示整片音乐光盘剩馀播放时间

6. SGL/CTN 单曲/连续播放切换按键

这个功能让你切换音乐的播放是单曲播放还是连续播放。

SGL = 单曲播放 → 当目前播放的音乐播放结束，播放器立即成为暂停的模式。

CTN = 连续播放 → 整片CD或是全部档案夹的音乐连续播放。

7. 音乐速度调整推子

这个推子用来调整音乐播放的速度。

8. 播放速度调整+/-键

当此组按键按住不放时，按“+”键加速播放，按“-”键减速播放，音乐播放速度立即被改变，放开时立即回复到原来的速度。

9. 音调锁定KEY LOCK

此项功能开启时，当你改变音乐拍子的速度，音乐的音调却不会受任何变化。

10. 拍子速度调整范围选择按键

每按一次此按键，拍子速度改变推子的范围变化，由±4%，±8%，±16%及±100%(CDDA)间切换。

11. 手动/自动BPM按钮

当自动BPM无法锁定音乐节拍时，可透过手动BPM来产生。顺著音乐节拍轻敲此按键会产生音乐的BPM（每分钟节拍数）数值，为了准确计算BPM数值，你至少必须敲四个拍子。按住TAP BPM，转动Track旋钮 **13** 可调整BPM值，按住并转动Track旋钮 **13** 可以调整BPM小数点值。

注意：如何回到自动BPM的计算模式，只要按住此键直到显示屏幕出现AUTO BPM。

12. 搜寻SEARCH键

搜寻键用来协助你快速的找到你所需要歌曲的位置， 这个搜寻键能够让你快速的往后搜寻， 这个搜寻键能够让你快速的往前进搜寻。

13. 音乐TRACK / 档案夹FOLDER选择旋钮

当作音乐TRACK选择旋钮使用时，此旋钮有三项功能

- 1) 此旋钮用来选择歌曲，在同一片CD或是同一个歌曲目录中，来选择歌曲。
- 2) 按下此旋钮并同时旋转，可以快速前进或是后退，每旋转一格可跳10首歌曲。
- 3) 单独按下此旋钮可切换显示屏幕上歌曲显示的模式，可以切换file name/title (ID3)/artist (ID3)/Album (ID3)/Genre (ID3) 按下切换键 **14**，LED灯亮，切换成“档案夹FOLDER选择旋钮时”，在CD/MP3光盘中或是在U盘中的音乐档案，放在不同的档案夹中，可利用此档案夹搜寻旋钮来切换不同的档案夹。

14. 音乐TRACK / 档案夹FOLDER选择切换按钮

按下此键，切换旋钮 **13** 的功能为音乐Track选择旋钮，或是档案夹FOLDER选择旋钮。

按住不放此键，可启动或关闭重复播放(REPEAT)功能。

- 当REPEAT ON时，表示播放的曲目不能超越当前的资料夹。
- 当REPEAT OFF时，表示播放的曲目能超越当前的资料夹到下一个资料夹。

15. 播放/暂停 PLAY/PAUSE 键

每按一次此按键可切换暂停变成播放，或是播放变成暂停。

16. CUE 按键

所谓的Cue点是一个自身定义的播放起点，通常是在节奏一开始的位置。在音乐播放的模式下，按下Cue键，音乐会立即暂停并回到上一次Cue点设定的位置。按著Cue键不放，将会变成播放模式，一旦你放开Cue键，播放就会立即暂停播放，并回到Cue点。

17. 循环起始点IN键

按下这个按键来设定循环起的起始点(IN)，在播放模式下可及时设定起始(Cue)点而不需中断播放。

18. 循环结束点OUT 键

按下这个按键来设定循环的结束点(OUT)，一个无缝循环由按下起始点(IN)开始，按下结束点(OUT)结束。循环会连续不断的播放，循环播放时IN与OUT按键会不停闪动，直到再循环/离开(RELOOP/EXIT) **19** 的按键被按下，循环播放才会停止。

19. 再循环/离开(RELOOP/EXIT) 键

如果已经设定一个无缝循环，但是已经离开循环播放模式，按下此键立即启动循环播放的模式，离开循环播放再按此键一次。循环播放中，再循环播放(RELOOP)会显示在屏幕上。

20. 转盘 Jog Wheel

这个转盘有几个不同的功能，说明如下：

- 1) 一帧一帧精确搜寻(Frame Search) - 暂停播放时，旋转转盘可精确的找到要播放的帧数。
- 2) Pitch Bend - 当在播放模式下，转盘可当做Pitch Bend使用。顺时针转动转盘可加速音乐播放的速度，最多加至100%。逆时针转动转盘可减慢音乐播放的速度，最多减至-100%，控制调整取决于转动转盘距离的多寡。

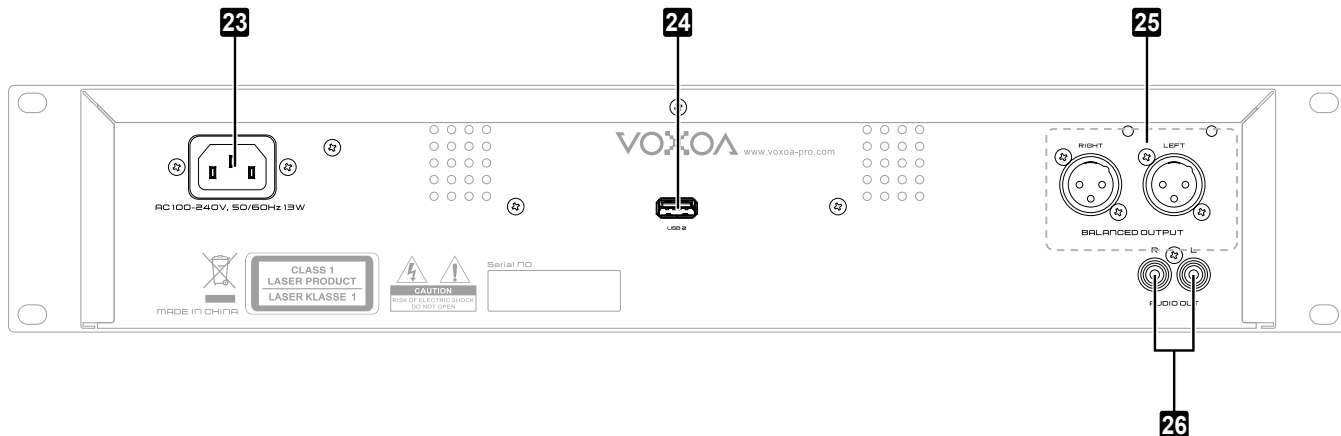
21. 红外线接收器

用来接收遥控器所发出的讯号。

22. 电源开关

这个开关用来开启与关闭电源。

后背板



23. 电源线插口

这个插口用来连接电源供应，插头只有一个方向能够插入，若方向不符合时，切勿强制插入。

24. USB2连接插口 (U盘插口)

此插口用来外接U盘或是USB周边。

注意：请先开启电源，再插上USB周边。

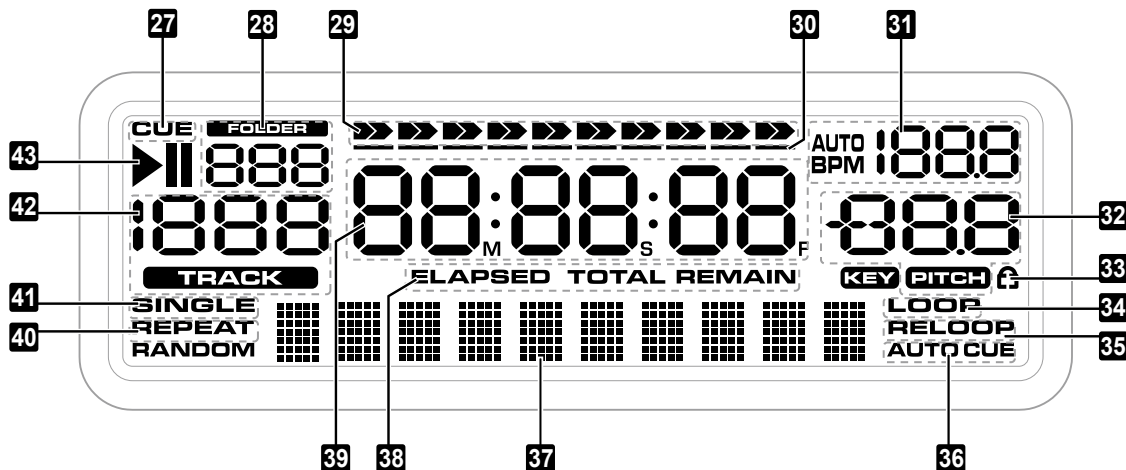
25. 平衡式XLR主音量输出插口

这个3-pin XLR插口送出高电流平衡输出讯号。

注意：这个插口需用于连接推动具有平衡式输入的功率放大器或是音讯设备。或是当讯号线长度超过15英尺时。

26. RCA声音输出插口

这个类比输出讯号需要一对左右通道的RCA线去连接混音器或是功率放大器。



27. CUE指示

在CUE模式下，此指示灯亮起。暂停模式下，指示灯会闪烁，此时可重新设定新的CUE点。

28. 资料夹显示

显示目前资料夹的编号，资料夹的编号方式是以光盘或U盘中资料结构为主，由根目录开始编辑。

29. 播放位置

这个长条提供视觉音乐播放位置的显示，当音乐快播放结束时，长条开始闪烁。

30. CUE及播放内存缓冲指示

内存的使用状况以条状的方向显示在屏幕上，第一条表示5秒的CUE内存缓冲，接下的条状表示1秒的播放内存缓冲。

31. BPM 显示

显示目前播放歌曲BPM(Beat per Minute每分钟节拍数)数值. 当AUTO BPM 显示时表示自动节拍计算器运作中。

32.速度调整显示

显示目前音乐播放速度调整百分比。

33. 音调锁定KEY LOCK指示

指示音调锁定功能已经启动。

34. 循环播放LOOP指示

表示目前正在播放循环LOOP。

35. 再循环指示RELOOP指示

当循环在播放时，此指示呈现闪烁的状态。

36. 自动起始(AUTO CUE)点指示

指示自动起始(AUTO CUE)点功能开始或是关闭，按下SGL/CTN键 一秒可启动或关闭自动起始(AUTO CUE)点功能。

37. 点矩阵讯息显示列

当播放有ID3标签的MP3档案，或是有文字的音乐光盘时，显示资料夹名称，音乐的表演者名称，档案名称，专辑名称，音乐类别与音乐名称等。切换不同的显示方式按歌曲选择旋钮做切换。

38. 时间显示模式指示

指示目前显示时间的模式。ELAPSED已播放时间，REMAIN剩餘播放时间，TOTAL REMAIN整片光盘剩餘播放时间，使用播放时间显示模式切换按键在不同模式之间做切换。

39. 时间显示

提供目前音乐详细的分，秒与帧。显示的方式由时间显示功能所决定，可显示已播放时间(ELAPSED)/剩餘时间(REMAIN)/ 整片光盘剩餘播放时间(TOTAL REMAIN)。

40. 重复播放REPEAT

指示目前播放模式在重复播放模式下。

41. 播放模式指示

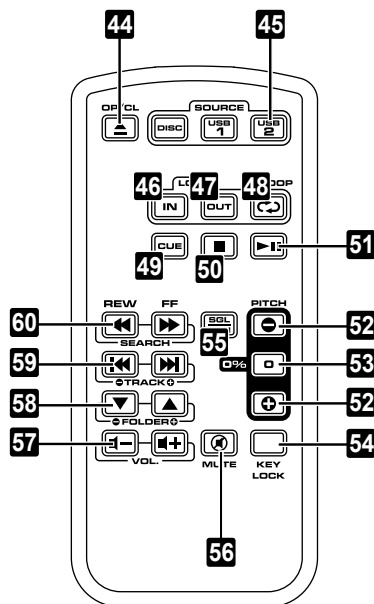
指示播放器在单曲播放模式或是连续播放模式，在单曲播放模式显示SINGLE，在连续播放模式不做任何显示。

42. 音乐编号显示

指示目前音乐的编号。

43. 播放/暂停指示

指示目前音乐在播放模式下或是暂停模式。



44. 光碟托盘开启/关闭键

按下此按钮将光盘退出。为了避免在音乐播放时误触此键而造成音乐中断，退出光盘的功能，只有在播放暂停的状态下，才能够使用。再按一次，托盘关起。

45. 音乐来源选择按键

用此按键选择切换三种不同的音乐来源包含CD/USB1/USB2。

46. 循环起始点IN键

按下这个按键来设定循环起的起始点(IN)，在播放模式下可及时设定起始(Cue)点而不需中断播放。

47. 循环结束点OUT 键

按下这个按键来设定循环的结束点(OUT)，一个无缝循环由按下起始点(IN)开始，按下结束点(OUT)结束。循环会连续不断的播放，循环播放时IN与OUT按键会不停闪动，直到再循环/离开(RELOOP/EXIT) **19** 的按键被按下，循环播放才会停止。

48. 再循环/离开(RELOOP/EXIT) 键

如果已经设定一个无缝循环，但是已经离开循环播放模式，按下此键立即启动循环播放的模式，离开循环播放再按此键一次。循环播放中，再循环播放(RELOOP)会显示在屏幕上。

49. CUE 按键

所谓的Cue点是一个自身定义的播放起点，通常是在节奏一开始的位置。在音乐播放的模式下，按下Cue键，音乐会立即暂停并回到上一次Cue点设定的位置。按著Cue键不放，将会变成播放模式，一旦你放开Cue键，播放就会立即暂停播放，并回到Cue点。

50. 停止播放键

停止音乐播放。

51. 播放/暂停 PLAY/PAUSE 键

每按一次此按键可切换暂停变成播放，或是播放变成暂停。

52. 音乐速度调整增加+/减少-键

这组按键用来调整音乐播放的速度，按+增快播放速度，按-减缓播放速度。

53. 音乐速度重置键

按下此按键，音乐播放速度立即变成正常播放速度，没有速度的改变。

54. 音调锁定KEY LOCK

此项功能开启时，当你改变音乐拍子的速度，音乐的音调却不会受任何变化。

55. SGL/CTN 单曲/连续播放切换按键

这个功能让你切换音乐的播放是单曲播放还是连续播放。

SGL = 单曲播放 → 当目前播放的音乐播放结束，播放器立即成为暂停的模式。

CTN = 连续播放 → 整片CD或是档案夹的音乐持续播放。

56. 静音MUTE 键

按下此键，输出音量立即变成0。

57. 音量控制键

控制输出的音量大小，按+增加音量，按-降低音量。

58. 档案夹搜寻键

在CD/MP3光盘中或是在U盘中的音乐档案，放在不同的档案夹中，可利用此档案夹搜寻键来切换不同的档案夹。

59. 音乐TRACK选择键

此组按键用来选择歌曲，在同一片CD或是同一个歌曲目录中，来选择歌曲。

60. 搜寻SEARCH键

搜寻键用来协助你快速的找到你所需要歌曲的位置， 这个搜寻键能够让你快速的往后搜寻， 这个搜寻键能够让你快速的往前进搜寻。

步骤1：按住TIME键 **5** 三秒进入功能设定选单。

步骤2：转动TRACK 搜寻旋钮切换不同的功能设定。

步骤3：按下TRACK进入每一个选项的设定模式。

步骤4：旋转TRACK旋钮，选择所需要的设定。

步骤5：再按下TRACK旋钮，离开单一功能设定选单。

步骤6：储存设定及离开，旋转TRACK旋钮到7.SAVE & EXIT，再按TRACK旋钮，屏幕出现SAVING，表示正在储存中，储存结束离开功能设定选单。

注意：按下TIME键 **5**，随时都可以离开“功能设定选单”，但所做的改变，不会被储存。

1. **Playlist** -音乐播放清单排序模式:设定音乐播放清单排序方式，可依一般Normal(无资料库)/音乐名称Title /音乐表演者名称Artist /专辑名称Album /音乐类型Genre (只有USB才有)播放时的排序方式。

VOXOA TUNEBOX软件能够针对U盘产生“音乐播放清单”(PLAYLIST)，可以依照需求而筛选不同的播放清单排序的方式。旋转“音乐TRACK选择旋钮 **13**”去选择播放清单依照何种方式排序，选择确定按TRACK旋钮 **13** 并离开。

- 一般模式Normal：这是内定值。播放清单是依照档案阶层架构所排序。
- 音乐名称Title：播放清单依照依“音乐名称Title”，按英文字母顺序排序。
- 音乐表演者名称Artist：播放清单依照依“音乐表演者名称Artist”，按英文字母顺序排序。
- 专辑名称Album：播放清单依照依“专辑名称Album”，按英文字母顺序排序。
- 音乐类型Genre：播放清单依照依“音乐类型Genre”，按英文字母顺序排序。

2. **Sleep Time** - 当光碟未操作时，会进入停止状态可调整5-120分钟及无停止状态。

3. **Line Setup** = 点矩阵讯息显示列模式，1跑马播放后暂停再继续跑马，2 跑马播放后停止，3 连续跑马播放。

- Dis = 显示时间调整0.5~12.0 秒。

- Run = 跑马速度调整 50~2000毫秒。

4. **Bit Rate** = MP3压缩率一是否显示MP3的压缩率，可设定显示ON/关闭OFF。

5. **Version** = 韧体版本资讯。

- CON : XX(Control 版本).

- SER : XX(Servo 版本).

- DSP : XX(DSP 版本).

6. **Load Default** = 载入预设值，按下TRACK旋钮载入预设值。

7. **Exit & Save** = 离开并储存设定。

开始播放与停止播放

- 开始播放

在暂停或是Cue模式下，按下播放/暂停PLAY/PAUSE键 **15** 启动播放模式。

- 停止播放

有两种方式可以停止播放。在播放下，按下播放/暂停PLAY/PAUSE键 **15**，播放立即暂停在你所按下的时间点，或是按下CUE键 **16**，播放立即停止并回到起始 (Cue)点。

设定起始(Cue)点

所谓的Cue点就是音乐播放的起始点，设定Cue点是为播放做准备的动作。在暂停模式下，一旦按下Cue 键，Cue点就会被储存在内存中。在音乐播放时，按下Cue键，音乐会立即暂停并回到Cue点，当再按下播放暂停(PLAY/PAUSE)键时，音乐开始从Cue点播放。

也可以回到Cue点立即播放，按住不放Cue 键，再按下播放暂停(PLAY/PAUSE)，音乐就会回到Cue点并立即播放。

步骤 1: 在播放中，当音乐播放到你所想要的时间点，按下PLAY/PAUSE播放暂停键 **15** 暂停音乐播放。

步骤 2: 精确的搜寻Cue点的位置，使用转盘可以做一帧一帧精确搜寻。

步骤 3: 找到你所想要的播放点，按下Cue键 **16**，IN键 **17** 会闪动表示Cue点的设定完成，新设定的Cue点会覆盖原有的。

- 即时设定Cue点

在播放模式下，在你所希望设定的时间点，按下IN键 **17**，Cue点立即被储存，只要稍做练习，这是最快设定Cue点的方式。

- 自动Cue点

自动Cue点功能，能够自动设定每一首音乐，一开始的起点。按住SGL/CTN键 **6**，开启自动Cue点功能，屏幕上会显示AUTO CUE。

秘诀：任何时间Cue键在闪动时，表示已经准备好记录新的Cue点。

调整播放速度 Adjusting the Pitch

- 使用速度调整推子 Pitch Slider

当第一台播放器正在播放，第二台播放器准备好要播放时，两台播放的拍子速度要保持一致，最迅速的方式是调整第二台播放器的速度调整推子，让第二台播放器去吻合第一台播放器的拍子速度。推子往上(-)移动会降低拍子速度，往下(+)移动会增加拍子速度。

- Pitch Bending

使用Pitch Bend 按键 **8** 调整速度

当音乐的速度调整到对的节奏，要调整每一个拍子要相符合的状态，Pitch Bending提供一个快速修正拍子位置的方式，让第二台播放器拍子的位置尽可能的与第一台播放器的位置相接近。按下PITCH BEND — or PITCH BEND +键会暂时增快或减慢播放速度。速度改变的程度会依照按著按键时间的长短成正比，举例说明，持续按著按键不放，播放速度一直改变直到速度调整范围的最大值。一放开按键，速度就回到速度调整推子（Pitch Slider）的设定值。

使用转盘调整速度 **20**

转盘也可作为暂时调整速度用，当音乐播放时，顺时针转动转盘增快播放速度，逆时针转动转盘减慢播放速度。改变速度的幅度会依照你所转动转盘的速度而定。

- 音调锁定KEY LOCK功能

这项功能让音乐的速度改变时不影响音乐的音调，当音调锁定功能的LED **9** 亮时，音调是保持原音调不变的。

无缝循环 Seamless Loops

- 创建一个无缝循环 (LOOP)

步骤 1：按下播放键(PLAY/PAUSE) **15** 开始播放。

步骤 2：播放至要求的循环起始点，按下起始点(IN)键 **17**。

步骤 3：按下结束点(OUT)键 **18**，设定循环的结束点。播放立即回到先前所设定的起始点(IN)，并开始播放到结束点(OUT)反覆播放，不会有任何间断。当循环设定完成，RELOOP指示在屏幕显示闪动，同时起始点(IN)键结束点(OUT)键同时闪动。

- 离开循环播放模式

在循环播放时，按下再循环/离开RELOOP/EXIT键 **19**，会离开循环播放模式，音乐播放到结束点(OUT)时，会持续往下播放，而不是回到起始点(IN)再播放。

- 再播放循环(Reloop)

只要再按”再循环/离开RELOOP/EXIT键 **19**”，即可进入循环播放状态。离开循环播放，只需再按一次”再循环/离开RELOOP/EXIT键 **19**”。

- HOT LOOP

在循环播放模式下(Loop Play)，按下IN键 **17** 播放会立即回到循环起始点(IN)，你可连续按IN键 **17** 创造出特殊的效果。

VOXOA TUNEBOX 资料库建立软件

VOXOA TUNEBOX资料库建立软件，在计算机端先针对外接的USB 储存设备做演算，建立音乐资料库，当接上USB 储存设备接上播放器时，播放器就可立即读取，并且可以依照音乐档案的名称，表演者，专辑名称及类别做立即的搜寻。

• 系统需求

处理器: 英特尔奔腾4, 1 GHz 处理器, Intel Centrino Mobile Technology 1.6 GHz 或更高等级。

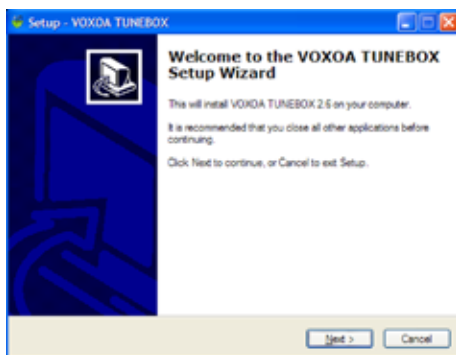
内存: 512 MB。

硬盘空间: 100MB 可使用的硬盘空间。

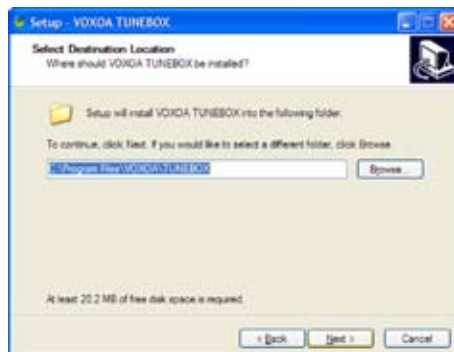
作业系统: Microsoft Windows XP SP3, Vista SP2 或更新的版本。

安装软件：请参照下列步骤安装资料库建立软件在计算机中。

步骤 1：执行资料库建立软件安装程式。



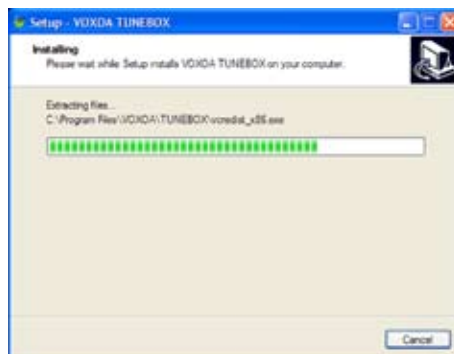
步骤 2：选择要将软件安装在计算机的那个资料夹。



步骤 3：准备好安装。

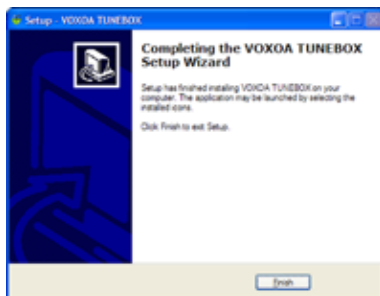


步骤 4：安装进行中。



VOXOA TUNEBOX 资料库建立软件

步骤 5 : 安装完成，按下Finish 结束，离开安装程式。



如何使用VOXOA TUNEBOX资料库建立软件

VOXOA TUNEBOX资料库建立软件可以一次性扫描所有在外接USB储存设备中所有的档案，并且建立档案资料库去确定音乐档案在资料库中的位置。这使得播放器在读取外接USB储存设备时，更迅速更容易找到你所要播放的音乐。

步骤 1: 执行VOXOA TUNEBOX程序。

步骤 4 : 完成资料库建立，显示建立的讯息。

步骤 2 : 选取所要建立资料库的外接USB储存设备，然后按下建立Build键。



步骤 3 : VOXOA TUNEBOX开始进行建立资料库的工作。

注意 : 每次外接USB储存设备的内容有做更动时，请重新执行VOXOA TUNEBOX去更新最新的资料库。



播放清单操作方式:

1. 按住Time键 **5** 3秒进入”功能设定选单”，旋转 Track 旋钮 **13** 去找寻播放清单 (PLAYLIST)的选项。
2. 旋转 Track 旋钮去选择 一般(Normal) / 曲目名称(Title) /表演者(Artist) /专辑名称(Album) / 类别(Genre) (只有USB才有)。
3. 使用Folder键 **14**去切换到资料夹(Folder)模式
(示范操作选取表演者Artist做为播放清单)

(a) 按住并旋转Track选钮，你可以依照表演者英文字母的第一个字，依序选择你所喜爱的表演者。

(b) 按住并旋转Track选钮，或是按住Track选钮然后旋转转盘，你可以选择下一个你所喜爱的表演者。

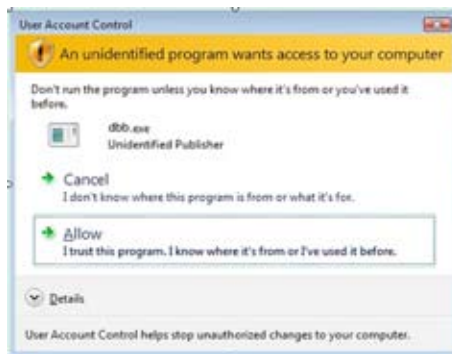
使用Folder键 **14**去切换到音乐(Track)模式

(a) 按住并旋转Track选钮，或是按住Track选钮然后旋转转盘去选择你所喜欢的音乐。

注意：在Windows Vista 作业系统下，执行VOXOA TUNEBOX软件，造成无法执行的问题，请依照下列步骤解决此问题。

在 Windows Vista作业系统下，会造成出现 “Failed to open device” (打开设备失败)的错误讯息。

1. 主要原因来自于 使用者帐号管理控制(User Account Control)的限制，而造成无法执行VOXOA TUNEBOX。
2. 在执行VOXOA TUNEBOX时，必须先按鼠标右键，然后选择Run as administrator。
3. 授权允许VOXOA TUNEBOX在 Windows Vista作业系统下执行，就能解决无法执行的问题。



1. 一般规格

电源 : AC100 - 240V, 50/60Hz

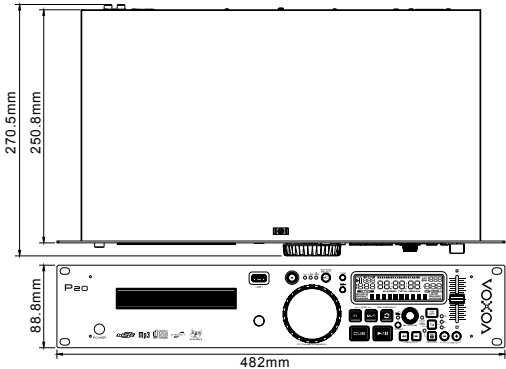
耗电量 : 13WATTS

尺寸 :

482mm (W) X 270.5mm (D) X 88.8 mm (H)

重量 :

4.35kg



2. 声音特性 : (光盘测试: TCD-782 & TCD-781; USB 测试格式: MP3, 128KBPS; 承载=100KOHM)

项目		典型	限制	条件
(1) 输出电平	CD:	2V +/-0.5dB	2V +/-1dB	1KHz, 0dB (TCD782,TRK2)
	USB:	1.85V +/-0.5dB	1.85V +/-1dB	1KHz, 0dB (TCD782,TRK2)
(2) 通道平衡		WITHIN 0.2dB	WITHIN 1dB	1KHz, 0dB (TCD782,TRK2)
(3) 频率响应	CD:	17-20KHz +/-0.4dB	17-20KHz +/-1dB	0dB OUTPUT (TCD782,TRK2/3/7)
	USB:	17-16KHz +/-0.2dB	17-16KHz +/-1dB	0dB OUTPUT (TCD781,TRK1/4/16)
(4) 信号还原	CD:	-20dB +/-0.2dB	-20dB +/-1dB	16KHz,-20dB (TCD782,TRK2/14)
(5) 通道分隔(*2)	CD, USB:	93dB	85dB	1KHz, 0dB (TCD782,TRK2/9/11)
(6) 总谐波失真+噪音(*1)	CD:	0.008%	0.015%	1KHz, 0dB (TCD782,TRK2)
	USB:	0.007%	0.015%	1KHz, 0dB (TCD782,TRK2)
(7) 信噪比(*2)	CD:	126dB	90dB	1KHZ, 0dB (TCD782,TRK2/8)
	USB:	85dB	80dB	1KHZ, 0dB (TCD782,TRK2/8)
(8) 动态范围(*2)	CD:	92dB	88dB	1KHz, -60dB (TCD782,TRK18)
(9) XLR 输出等级		8.22dBm (2V)+/-0.5dB	8.22dBm (2V)+/-1dB	1KHz, 0dB (TCD782,TRK2)
NOTE : *1 : WITH 20KHz低通滤波器. *2 : WITH 20KHz低通滤波器, "IHF-A" WEIGHTED.				

3. 光盘搜寻时间 : (测试光盘:: TCD-792)

项目	典型	限制	条件
(1) 短存取时间	2秒	4秒	播放下一首
(2) 长存取时间	4秒	6秒	第1首到第20首，第20首到第1首

4. 光盘播放能力：

项目	典型	限制	条件
(1) 中断INTERRUPTION	1mm	0.7mm	TCD-725
(2) 黑点BLACK DOT	1mm	0.6mm	TCD-725
(3) 指纹FINGER PRINTS	75um	65um	TCD-725
(4) 偏心率ECCENTRICITY	140um	140um	TCD-712 W/O TRACK JUMP
(5) 垂直轴偏差VERTICAL DEVIATION	1mm	0.5mm	TCD-731R
(6) 刮痕SCRATCH	2mm	1.2mm	TCD-721 W/O TRACK JUMP

5. MP3 格式：

光盘格式	可读取的延伸档名	mp3. MP3. mP3. Mp3
	ISO9660	最多 63 字元
	Joliet	最多 63 字元
	CD-ROM区段格式	mode-1 only
	最大资料夹数	255
	最大档案数	最多999档案(* note #1)
USB 格式	档案系统	FAT 12/16/32
	可读取的延伸档名	mp3. MP3. mP3. Mp3
	最大资料夹数	999
	最大档案数	最多999档案
MP3 格式	标准MPEG 1 Layer 3 (ISO/IEC 11172-3), 提供单音轨 (‘mono’) 与双音轨 (‘stereo’) 编码取样率32, 44.1 与 48kHz.	32/40/48/56/80/96/112/128/160/192/224/256/ 320 kbps Xing/VBRI VBR
	标准MPEG 2 Layer 3 (ISO/IEC 13818-3), 提供类似的编码取样率16, 22.05 and 24 kHz.	32/40/48/56/64/80/96/112/144/160 Kbps Xing/VBRI VBR
	标准MPEG 2.5 Layer 3提供类似的编码取样率8, 11.025 and 12 kHz.	32/40/48/56/64/80/96/112/144/160 Kbps Xing/VBRI VBR
光盘写入方式	Disc at Once and Track at Once	
	多重区段	假设第一个区段是CDDA，只能播放CDDA的音乐。假设第一个区段是MP3，只能播放MP3的音乐。

NOTE #1: 最多每个资料夹255档案。

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use the apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding- type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/ accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus.
When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lighting storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. When the mains plug or appliance coupler used as the disconnect device, it shall remain readily operable.
16. Please keep the unit in a good ventilation environment.



WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION : To reduce the risk of electric shock, do not remove any cover. No user-serviceable parts inside. Refer servicing to qualified service personnel only.



The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the use to the presence of un-insulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this appliance.

CAUTION

To prevent electric shock, do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

IMPORTANT SAFETY INSTRUCTIONS

17. All warnings on the appliance and in the operating instructions should be adhered to.
18. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
19. Power Sources - This product should be operated only from the type of power source indicated on the rating label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer the operating instructions.
20. Grounding or Polarization - This product may be equipped with a polarized alternation-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
21. Power-Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the cord in correspondence of plugs, convenience receptacles, and the point where they exit from the appliance.
22. For AC line powered units - Before returning repaired unit to user, use an ohm-meter to measure from both AC plug blades to all exposed metallic parts. The resistance should be more than 100,000 ohms.
23. Non-use Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
24. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
25. Damage Requiring Service - The appliance should be serviced by qualified service personnel when: A. The power-supply cord or the plug has been damaged; or B. Objects have fallen, or liquid has been spilled into the appliance; or C. The appliance has been exposed to rain; or D. The appliance does not appear to operate normally or exhibits a marked change in performance; or E. The appliance has been dropped, or the enclosure damaged.
26. Servicing - The user should not attempt any service to the appliance beyond that that described in the operating instructions. All other servicing should be referred to qualified service personnel.
27. Lightning - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
28. Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
29. Safety Check - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

- MAIN FEATURES

MP3 Playback

The P20 can read, display and play MP3 files written to CD-R/CD-RW providing DJs with the ability to store more music on a single media or for extended playback time. Files can be searched for easily either manually, or by scanning or using a number of file search functions including File search and File/Folder search. Additionally MP3 ID3 tag information can be viewed on the display.

MP3 File Search System and CD TEXT

MP3 File Search System allows you to locate in seconds hundreds of MP3 tracks on by artist name, song title or folder. In addition, MP3 ID3 Tags and Audio CD Text are supported on a large, easy-to-read dot matrix fluorescent tube display.

External USB Device

In this digital era, USB devices become the most convenient for music collection. P20 can support external USB mass storage devices. Connect an MP3 player, thumb drive and large hard drives for easy access to small or extensive MP3/WAV libraries up to 999 folders and each folder 999 files.

Support with VOXOA TUNEBOX Software

Support with the VOXOA TUNEBOX software makes reading and searching files much quicker and easier. The VOXOA TUNEBOX can scan all of music files in your USB mass storage devices and then create database files to locate the files in your music library.

Infrared Ray Remote Controller

P20 includes infrared ray remote controller, so you can control the player when you are not in front of the player. The feature adds a lot of convenience helpful for small lounge bars, music restaurants, and other entertainment places.

Hot Loop

Press IN button during loop playback, to return to the Loop In point and to start over the loop playback. You can repeatedly press the IN button to create a stuttering effect.

Anti-Shock Buffer Memory

Sound jumps or skipping is prevented by using Anti-Shock buffer memory for continuous playback even in the event of a bump or knock.

Tempo Control and Range

A high precision slider gives DJs total control and ensures that the tempo adjustment is easy and accurate. The range of tempo +/- 4%, +/-8%, +/-16%, +/-100%(CDDA) can be assigned to the Tempo Control slider.

Key Lock

The Key Lock function locks the pitch of the track even when you adjust the speed of the track. You can speed up or slow down the beat without any noticeable difference in how the vocal and music sound.

FEATURES

- FEATURES AND FUNCTIONS

Player

- 19" 2U Rack-mountable
- Reliable Anti-Shock playback with buffer memory
- Automatic and manual tap beat counter
- Remote Controller

Media Types

- Support for CD / MP3 playback with text display
- 2 USB sockets for external USB device support
- ID3 TAG and CD text support

Playback

- Instant start via 1 bit technology (8 fold)
- Single and Continuous play modes

Music Search

- Track and folder searching system
- Frame search for precisely searching
- VOXOA TUNEBOX software for fast searching massive USB device
- Onboard file and folder browsing

Cue/Loop

- Auto cue function cues track to start of music
- Seamless loop function / reloop function
- Hot Loop function

Pitch Control

- Adjustable pitch rang $\pm 4\%$, $\pm 8\%$, $\pm 16\%$ and $\pm 100\%$ (CDDA)
- High quality pitch fader
- Pitch bend control button
- Pitch bend up to $\pm 100\%$
- Key Lock allow a track's tempo to be changed without affecting the original key of the track

FEATURES

Jog Wheel

- High quality 2.4" jog wheel
- Jog wheel control for pitch bending and frame searching

Display

- Large extra bright display for all important functions
- Display playing address
- Elapsed / Remain / Total remain time display
- Displays text for ID3 tags and folder names for easy navigation
- Text display for navigating folders on MP3 CDs and USB flash drives

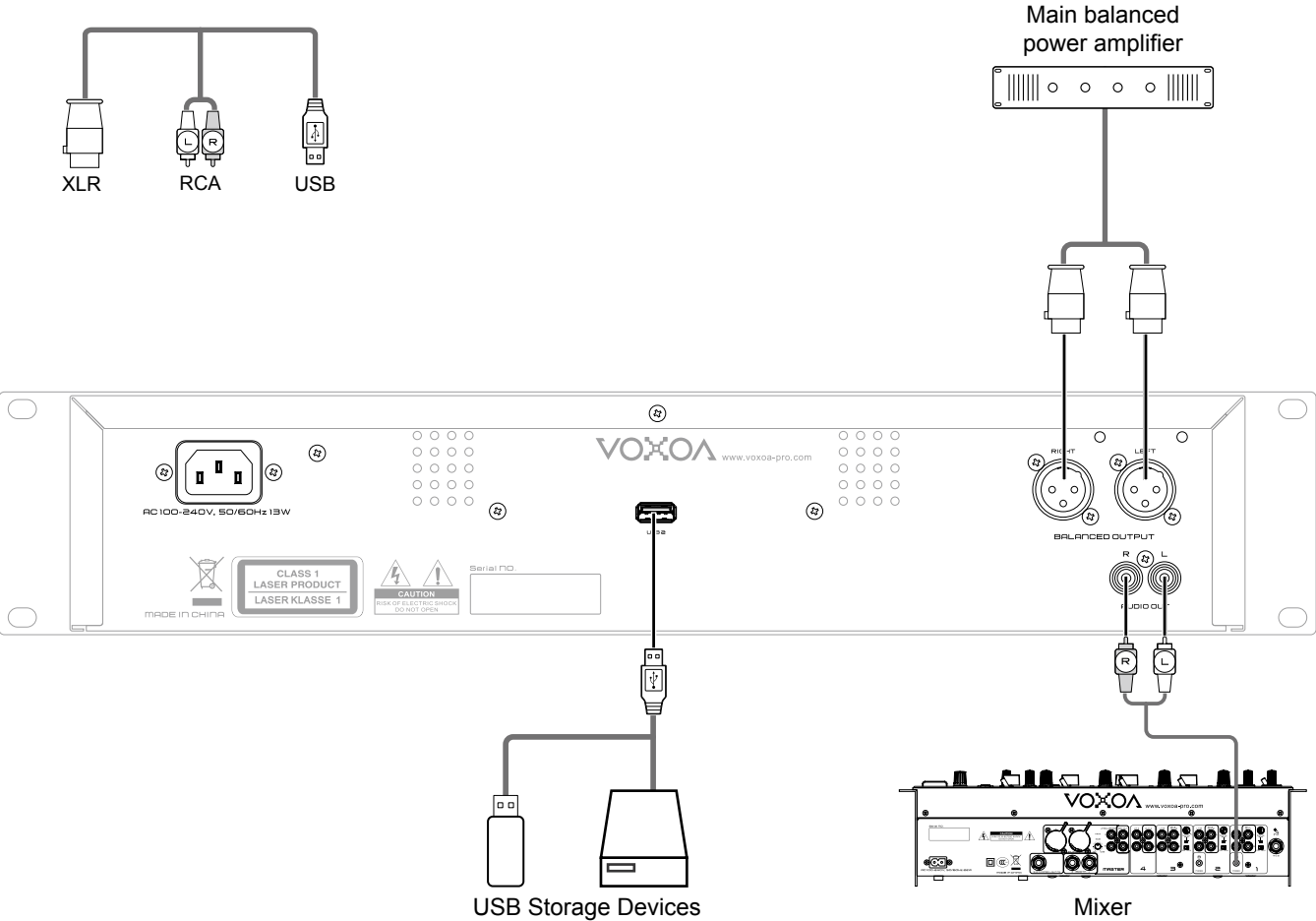
Output

- Analog RCA outputs
- Balanced XLR outputs

CONNECTIONS

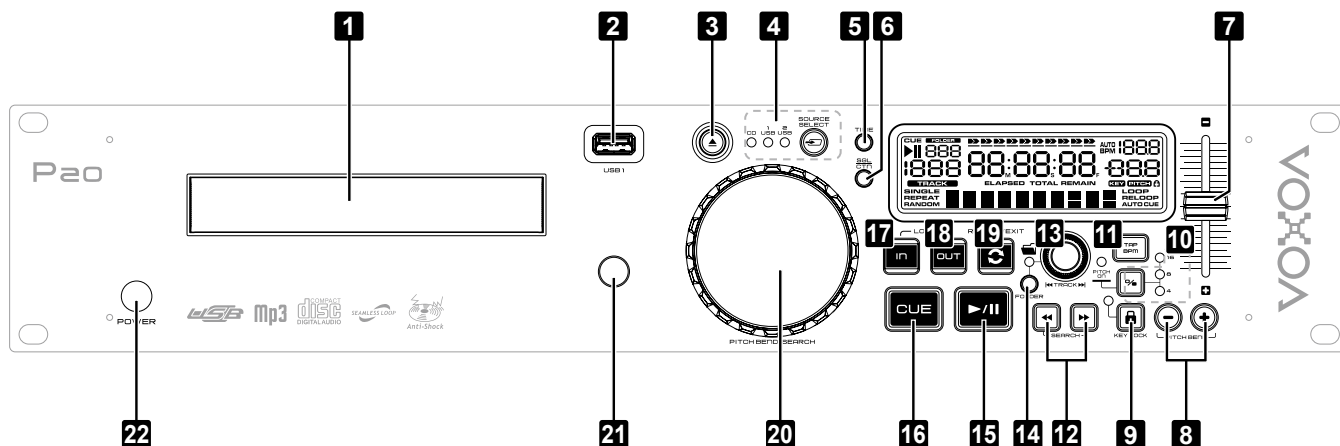
1. Before making or changing connections, switch off the power and disconnect the power cord from the AC outlet.
2. Quality cables make a big difference in fidelity and punch. Use high-quality, audio cables.
3. Do not use excessively long cables. Be sure plugs and jacks are securely fastened. Loose connections cause hum, noise, or intermittence that could damage your speakers.
4. Connect the RCA pin cords to the inputs on your mixer.

CAUTION : Be sure to use the supplied control cord. Using another type of cable may result in damage.



PART NAMES AND FUNCTIONS

Front Panel



1. Compact disc tray

This tray is used to load and unload a compact disc. The tray is opened and closed by pressing the Disc open/close button. Never attempt to force the tray open or closed when the power is turned off.

2. USB 1 port

The port use to connect a USB memory device.

CAUTION : Please turn on the P20 before you plug USB storage device.

3. Disc tray open / close button

Pressing this button will open the CD tray. The open function will only when the unit is in cue or pause mode, this is to prevent accidentally ejecting the disc when in play mode. Press the button again to close the CD tray.

4. Source select button

Use this button to switch between the three media modes – CD/USB1/USB2. When turning on the P20 will automatically be in CD mode.

5. Time display mode switch button

The button will switch the time display mode between Elapsed playing time, Track Remaining time and entire CD Total Remaining time.

6. SGL/CTN switch button

This function allows you to switch single track play or continuous track play (all tracks in order).

SGL = Single → The current title is played; the player goes into pause mode.

CTN = Continue → The entire CD or folders will be continually played.

7. Tempo adjust slider

This slider is used to adjust the playback pitch percentage.

8. Pitch bend +/- button

The desired pitch decrease (➖) or increase (➕) when button is pressing and returns to the original pitch when the button is released.

9. Key Lock button

This function allows the tempo or BPM of the music to be altered without affecting the musical key. While this LED is illuminated, the key will be locked at zero.

10. Tempo control range selector button

Each time this button is pressed, the tempo adjust slider's variable range alternates between $\pm 4\%$, $\pm 8\%$, 16% and 100% (CDDA).

11. TAP /Auto BPM button

Tap along with the music to enter manual BPM values. This is generally used to manually calculate BPMs when the Auto BPM function is unable to lock onto a consistent beat. You must tap at least four times in order for a calculation to occur, and the calculation will only be as accurate as your tapping. Holding TAP BPM button, turning track knob **13** is able to adjust BPM value, holding down and turning track knob to adjust the decimal BPM value.

NOTE : Using this button will disengage the Auto BPM function. To return to Auto BPM, simply hold down the Tap button until the display reads AUTO BPM in the display screen.

12. Search buttons

 This search button allows you to quickly scan backwards through a track.  This search button allows you to quickly scan forwards through a track.

13. Track / Folder search knob

- Under Track Search this knob has three functions.
 - 1) The knob is used to select a track. Turning track knob will forward/backward skip to next track.
 - 2) Holding down and turning track knob will rapidly forward/backward skip through the tracks by 10 tracks per click.
 - 3) Press track knob to switch file name/title (ID3)/artist (ID3)/Album (ID3)/Genre (ID3) on the display screen.
- Press the Track / Folder Search switch button **14** and the LED lit to switch the Knob as Folder Search Knob.

Folder Search Knob – If a CD/MP3 or USB device is divided into folders, change directly into these folders use the Folder Search Knob. Turn the knob to search the desired folder.

14. Track / Folder search switch button

Press this button to switch the knob's function as Track search knob or Folder search knob. Holding this button to turn ON/OFF REPEAT function.

REPEAT ON : All the tracks in the current folder will be played track by track until the repeat function is deceived.

REPEAT OFF : All the tracks in the device will be played in normal mode.

15. PLAY/PAUSE button

Each press of the button to change from play to pause or from pause to play.

16. CUE button

A Cue Point is self-defined starting point, usually at the beginning of a beat. Pressing the cue button during playback immediately pause playback and returns the tracks to the last set cue point. By pressing and holding the Cue Button you will return to Play mode until you release the button again. The player will then returns to the Cue Point and go into Pause mode.

17. LOOP IN & real time cue button

This function allows you to set a CUE POINT without music interruption. This button also sets the starting point of a seamless loop.

18. LOOP OUT button

This button is used to set the ending point of a loop. A loop is started by pressing the IN button, pressing the OUT button set the loop ending point. The loop will continue to play until the RELOOP/EXIT button **19** is pressed once again.

19. RELOOP/EXIT button

If a SEAMLESS LOOP has been made, but the player is not actively in seamless loop mode, pressing the reloop button will instantly reactivate the seamless loop mode. To exit loop, press the button again. RELOOP will appear in the LCD display when the RELOOP function is available.

During play mode, pressing the RELOOP button will instantly return play to the last set point without interrupting playback.

20. Jog wheel

This wheel has multiple functions:

- 1) **Frame Search** - The jog wheel will act as a frame search control when the track in the pause or cue mode, allowing you to set a point.
- 2) **Pitch Bend** - The wheel also works as a pitch bend during playback, similar to a “push” or a “drag” on a turntable. Turning the wheel clockwise will increase the pitch percentage up to 100%, and turning the wheel counterclockwise will decrease the pitch percentage down to -100%. The pitch bend will be determined on how long you turn the jog wheel continuously.

21. Remote control's infrared sensor

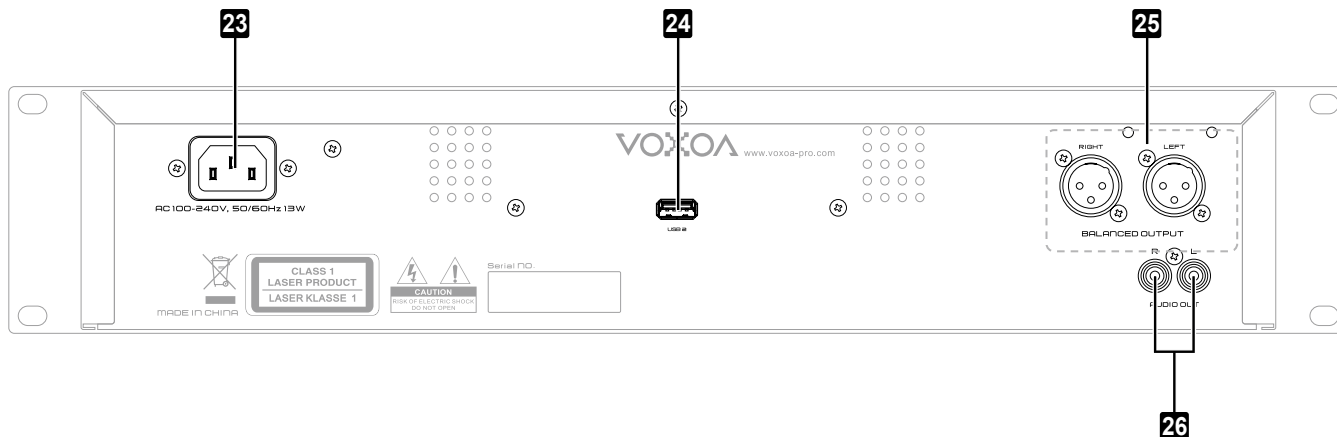
To receive signal from remote controller.

22. Power switch

This switch is used to turn your unit's power on and off.

PART NAMES AND FUNCTIONS

Rear Panel



23. Power connector

This connection is used to connect your main power supply. The plug can only be inserted in one direction, so do not force it.

24. USB 2 port

The port use to connect a USB memory device.

CAUTION : Please turn on the P20 before you plug USB storage device.

25. BALANCED XLR MASTER OUTPUT JACKS

The Master Output includes a pair of XLR Balanced jacks. The 3-pin XLR jacks send a high current balanced output signal.

CAUTION : These jacks should be used when you will be driving an amp or other audio equipment with a balanced input, or whenever you will be running a signal line greater than 15 feet. Always, use these jacks whenever possible.

26. RCA audio output hub

This analog output signal requires a pair of RCA cables (Left and Right) to be connected to a mixing console or amplifier.



This indicator will glow when the unit is in CUE mode, and will flash when in pause mode to enable to set a new cue point.

Indicates the number of the current folder.

This bar gives a visual approximation of a track's or disc's time. This bar will begin to flash when a track is ending.

The memory status is represented on the display by the line bar being filled or emptied. The first bar itself represents 5 seconds of cue memory buffer. And following bars each represents 1 second of play memory buffer.

Indicates the current BPM value of the track. AUTO BPM - This will indicate that the AUTO BPM counter is active.

Indicates the set pitch value of a track in percent.

33. Key Lock indicator

Indicates the Key Lock function has been activated.

34. Loop indicator

Indicates the loop is playing.

35. Reloop indicator

When "RELOOP" flashes, the loop is active.

36. Auto cue indicator

This will indicate if the Auto Cue is on or off. Press and hold the SGL/CTN button for 1 sec. to turn the Auto Cue function on and off.

37. Dot matrix Information display

Indicates the name of the folder, artist, file, album, genre and title while playing a MP3 with ID3 TAG or an audio CD with CD text. To change between the name of a folder, artist and title of a MP3, press the Track Knob.

38. Time mode indicator

Indicates if the player shows the elapsed time of a track (the display reads „ELAPSED“), the remaining time of a track (the display reads „REMAIN“) or the remaining time of the entire CD (the display reads „TOTAL REMAIN“). Use the Time Display Mode Button to switch between the modes.

39. Time display

These indicators will detail the current Minutes, Seconds, and Frames. The display will indicate either the elapse, total, or remaining time of a track or the entire disc. The display time will depend on the selected time function. The selected time function will be displayed above the Time Display as total remaining, remaining track time, or elapsed track time.

40. REPEAT indicator

Indicates the play mode is repeat play mode.

41. Play mode indicator

Indicates if the player is in Single mode (the display reads "SINGLE") or in Continue mode (nothing on display). In single play mode, the track will play once and return to CUE mode.

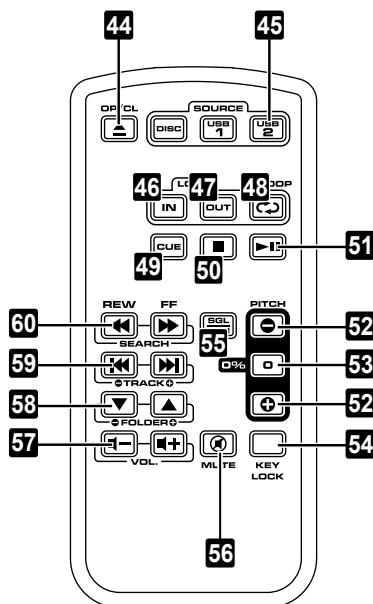
42. Track display

This indicator describes which track is currently cued or is playing.

43. Play/Pause indicator

The indicator current play mode is play mode or pause mode.

Remote Controller



44. Disc Tray OPEN/CLOSE button

Pressing this button will open the CD tray. The open function will only work when the unit is in cue or pause mode, this is to prevent accidentally ejecting the disc when in play mode. Press the button again to close the CD tray.

45. Source select button

Use this button to switch between the three media modes – CD/USB1/USB2.

46. LOOP IN & real time cue button

This function allows you to set a CUE POINT without music interruption. This button also sets the starting point of a seamless loop.

47. LOOP OUT button

This button is used to set the ending point of a loop. A loop is started by pressing the IN button, pressing the OUT button set the loop ending point. The loop will continue to play until the RELOOP/EXIT button **19** is pressed once again.

48. RELOOP/EXIT button

If a SEAMLESS LOOP has been made, but the player is not actively in seamless loop mode, pressing the reloop button will instantly reactivate the seamless loop mode. To exit loop, press the button again. RELOOP will appear in the LCD display when the RELOOP function is available.

During play mode, pressing the RELOOP button will instantly return play to the last set point without interrupting playback.

49. CUE button

A Cue Point is self-defined starting point, usually at the beginning of a beat. Pressing the cue button during playback immediately pause playback and returns the tracks to the last set cue point. By pressing and holding the Cue Button you will return to Play mode until you release the button again. The player will then returns to the Cue Point and go into Pause mode.

50. STOP button

Press this button to stop music play.

51. PLAY/PAUSE button

Each press of the button to change from play to pause or from pause to play.

52. Tempo adjust +/- buttons

These buttons are used to adjust the playback pitch percentage. Press + button to increase playback speed. Press – button to decrease playback speed.

53. Tempo Reset button

Press this button causes the tempo to be reset instantly to “0” (normal tempo).

54. Key Lock

This function allows the tempo or BPM of the music to be altered without affecting the musical key. While this LCD is illuminated, the key will be locked at zero.

55. SGL/CTN switch button

This function allows you to switch single track play or continuous track play (all tracks in order).

SGL = Single → The current title is played once and the player goes into pause mode.

CTN = Continue → The entire CD or folders will be played continually track by track.

56. MUTE button

Press this button to reduce volume to 0.

57. Volume control button

These buttons can control output volume. Press “+” to increase volume and press “-” to decrease volume.

58. Folder search buttons

If a CD/MP3 or USB device is divided into folders, change directly into these folders use the Folder Search buttons. Press the buttons to search the desired folder.

59. Track search buttons

These buttons are used to select a track.

60. Search buttons

 This search button allows you to quickly scan backwards through a track.  This search button allows you to quickly scan forwards through a track.

STEP 1 : Hold the TIME button **5** for three second to enter the utility menu.

STEP 2 : Turn the TRACK KONB to select different function setup.

STEP 3 : Press the TRACK KONB to enter the setup mode for each function.

STEP 4 : Turn the TRACK KNOB to select desired function and adjustment.

STEP 5 : Press the TRACK KNOB to exit single function setup mode.

STEP 6 : Save and exit utility menu. Turn the TRACK KNOB to 7.SAVE&EXIT and press the TRACK KNOB, the display indicates "SAVING". When the player finish the saving process and exit the utility menu.

NOTE : Anytime you can exit the Utility Menu just press the TIME button. However, the modified setting would not be saved.

1. Playlist - Normal / Title/ Artist / Album/ Genre (for USB only)

The VOXOA TUNEBOX can generate "Playlist" for USB device. You can adjust various criteria in order to filter track in this setting.

You can turn the TRACK (SEARCH) KNOB to select "Normal / Title/ Artist / Album/ Genre (for USB only)" and press the TRACK knob again to memorize your setting and exit the utility menu.

Normal : This is the default setting. The tracks are played corresponding to the established hierarchical data structure.

Title : It is possible to continuously and alphabetically browse track database through the title structure.

Artist : It is possible to continuously and alphabetically browse track database through the Artist's name structure.

Album : It is possible to continuously and alphabetically browse track database through the album structure.

Genre : It is possible to continuously and alphabetically browse track database through the track's genre structure.

2. Sleep Time - 5~120min, No Sleep.

3. Line Setup - To setup the Dot Matrix Information Display mode.

- **Dis** = 0.5~12.0 sec. (LINE NAME start/stop time adjustment).

- **Run** = 50~2000 msec. (LINE NAME move time adjustment).

4. Bit Rate - Display MP3 bit rate ON/OFF.

5. Version - To display the firmware version.

- CON : XX(Control version).

- SER : XX(Servo version).

- DSP : XX(DSP version).

6. Load Default - Press TRACK Knob to enter load defaults.

7. Exit & Save = Save the setting and exit utility menu.

Starting and Stopping Playback

• Starting Playback

Press the PLAY/PAUSE button **15** during the pause or cue mode to start playback. The PLAY/PAUSE button illuminates with a solid green light during playback.

• Stopping Playback

There are two ways to stop playback. Press the PLAY/PAUSE button **15** during playback to pause at that point, or press the CUE button **16** during playback to return to the position at which playback started.

How to Set a Cue Point

Cueing is the action of preparing tracks for playback. Once a cue point has been stored in memory when the CUE button is pressed, playback returns to the cue point and enters pause mode. When the PLAY/PAUSE button is pressed during the cue mode, playback starts. Playback can also be resumed from cue mode by pressing the PLAY/PAUSE button while holding the CUE button.

Step 1 : During playback, press the Play/Pause button **15** to pause playback at the point you wish to begin playback.

Step 2 : Search for the precise position of the cue point. Using the jog wheel to advance frames search.

Step 3 : Press the CUE button **16** when you reach the desired point. Cue point memory setting is completed when the IN button **17** is flashing. When a new cue point is stored in memory the previous setting will be erased.

• Real-time Cue

During playback, press the IN button **17** at the desired cue point to save the Cue Point. With a little practice, this is a faster way to set the desired Cue Point.

• Auto Cue

The Auto Cue function will automatically set the first cue point at the beginning of each track. To turn Auto Cue on and off, hold down the SGL/CTN button **6**. When Auto Cue is on, the display will show AUTO CUE.

HINT: Anytime the CUE button is flashing, it means it is ready to save a new cue point.

How to Adjust the Pitch

- **Pitch Slider**

With your first deck playing and your second deck cued, start playback in sync with the downbeat of the song. Quickly adjust the pitch using the PITCH SLIDER **7** to match the tempo of deck one. Moving the slider up (**—**) will decrease the tempo, while moving it down (**+**) will increase the tempo.

- **Pitch Bending**

Use Pitch Bend Button **8**

As you are finding the right tempo, the track position will drift until it is fine-tuned and the tempo is matched. Pitch Bending provides a quick fix to keep the position as close as possible to deck one. Pressing the PITCH BEND – or PITCH BEND + buttons will decrease or increase the speed of playback temporarily. The extent to which the speed is changed is proportionate to the amount of time the button is pressed. For example, if the PITCH BEND + button is held in continuously, the speed continues to increase until the maximum limit set by the PITCH RANGE is reached. Once the PITCH BEND + button is released the pitch will return to the pitch set by the PITCH SLIDER.

Use Jog Wheel **20**

The jog wheel can also be used to temporarily bend the pitch of the music during normal playback. During playback rotate the wheel clockwise to speed up and counterclockwise to slow down. The speed that you rotate the jog wheel determines the percent of pitch bend.

- **Key Lock **9****

This function allows the tempo or BPM of the music to be altered without affecting the musical key. While this KEY LOCK LED **9** is illuminated, the key will be locked at zero.

How to Set a Seamless Loop

- **Creating a Seamless Loop**

Step 1 : Press the PLAY/PAUSE button **15** to begin playback. The button illuminates solid green (not flashing).

Step 2 : Set the start point of the seamless loop by pressing the IN button **17** at the desired point in time.

Step 3 : Set the out point of the loop by pressing the OUT button **18** at the desired point in time. Playback will immediately return to the previously set IN point and play to the OUT point, creating a seamless loop without interruption. When the loop has been set, the LOOP indicator on the LCD screen will light. In the same time, the LOOP IN and LOOP OUT button are flashing.

- **To Exit the Loop**

During loop playback, press the RELOOP/EXIT button **19** to exit the loop. When the music reaches the OUT point, it will play through it instead of looping back to the IN point.

- **To replay a seamless loop (Reloop)**

To replay the loop, press the RELOOP/EXIT button **19**. The loop can be re-triggered by pressing the button (until a new loop is created). Press the RELOOP/EXIT button to exit the loop again.

- **Hot Loop**

Press IN button during loop playback, to return to the Loop In point and to start over the loop playback. You can repeatedly press the IN button to create a stuttering effect.

VOXOA TUNEBOX

Free bundle database management software enables you to search for your files by Title, Artist, Album, and Genre.

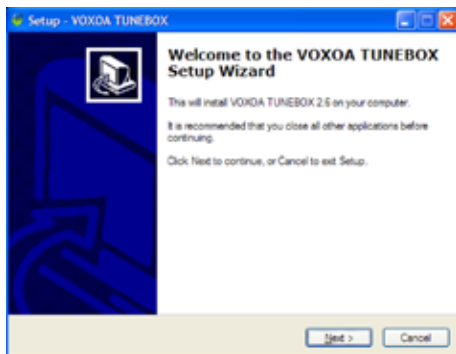
• SYSTEM REQUIREMENTS

- _ CPU : Intel Pentium 4, 1 GHz processor, Intel Centrino Mobile Technology 1.6 GHz or above
- _ RAM : 512 MB
- _ DISK SPACE : 100MB of free disk space need
- _ OS : Microsoft Windows XP SP3, Vista SP2 or later version

Installation : Refer to the following figures for installing VOXOA TUNEBOX software on your computer.

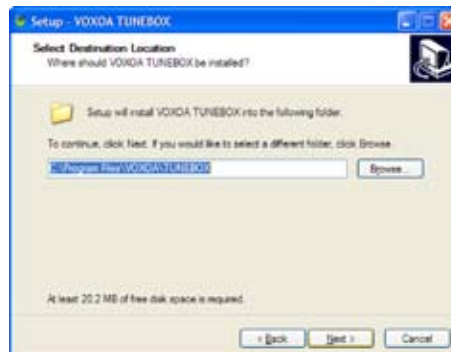
Step 1 :

Execute the VOXOA TUNEBOX software.

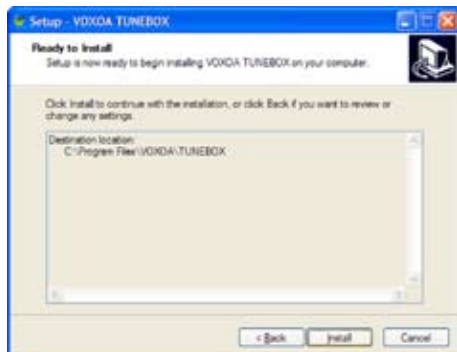


Step 2:

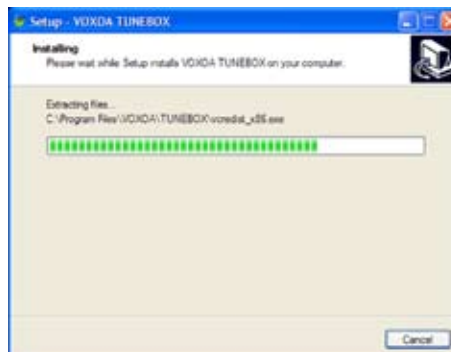
Select the desired folder to install the VOXOA TUNEBOX in your computer.



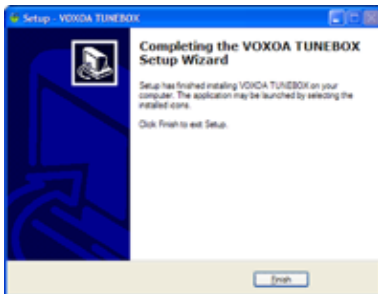
Step 3 : Ready to install.



Step 4 : Installing.



Step 5 : Completing the VOXOA TUNEBOX setup. Click the Finish to quit the installation.



How to use the VOXOA TUNEBOX

The VOXOA TUNEBOX can scan all of music files in your USB storage device and then create database files to locate the files in your music library. This makes the P20 read music files from USB hard drive much quicker and easier.

Step 1: Execute the VOXOA TUNEBOX program.

Step 2 : Select the desired USB device and click “Build” to build a music database of your device.



Step 3 : The VOXOA TUNEBOX is working on building database.



Step 4 : Complete the building process.



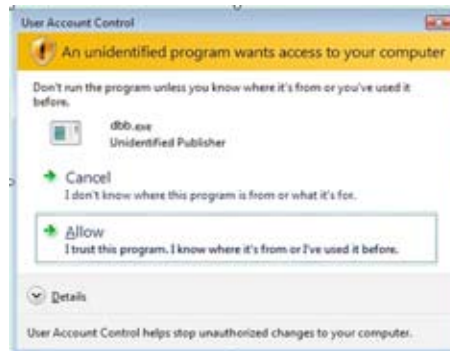
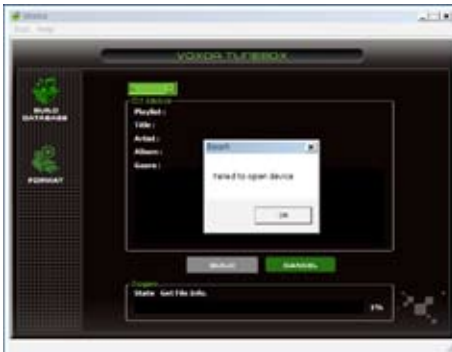
CAUTION : Every time your change the music contents in your USB storage device, please re-execute the VOXOA TUNEBOX to re-build the music database.

PLAYLIST OPERATION :

1. Hold the Time button **5** for 3 sec. to enter the utility menu and turn Track knob **13** to search PLAYLIST.
 2. Turn the Track knob to select “Normal / Title / Artist / Album / Genre (for USB only)”
 3. Use Folder button **14** to switch to Folder mode: ex: to select “Artist”
 - (a) Hold and turn the Track knob; you can select the folder you like by first letter of Artist, and the Artist alphabet is arranged in order.
 - (b) Turn the Track knob or hold the Track knob and turn Jog Wheel to select next “Artist”.
- Use Folder button **14** to switch Track mode:
- (a) Turn the Track knob; or hold the Track knob and turn Jog Wheel to select the track you like.

The main reason for user failed to run VOXOA TUNEBOX in Windows Vista.

1. User fail to run VOXOA TUNEBOX in Windows Vista because the User Account Control limitation.
2. User should press the right button of mouse to run the VOXOA TUNEBOX with the option of Run as administrator
3. Allow the VOXOA TUNEBOX to run.



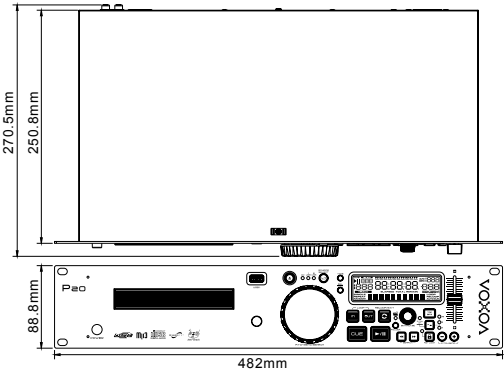
SPECIFICATIONS

1. GENERAL SECTION

POWER SOURCE :
AC100 - 240V, 50/60Hz, 13WATTS

DIMENSION :
482mm (W) X 270.5mm (D) X 88.8 mm (H)

WEIGHT :
4.35 kg



2. AUDIO CHARACTERISTICS :

(CD TEST DISC: TCD-782 & TCD-781; USB TEST FORMAT: MP3, 128KBPS; LOAD=100KOHM)

ITEM		TYPICAL	LIMIT	CONDITION
(1) OUTPUT LEVEL	CD:	2V +/-0.5dB	2V +/-1dB	1KHz, 0dB (TCD782,TRK2)
	USB:	1.85V +/-0.5dB	1.85V +/-1dB	1KHz, 0dB (TCD782,TRK2)
(2) CHANNEL BALANCE		WITHIN 0.2dB	WITHIN 1dB	1KHz, 0dB (TCD782,TRK2)
(3) FREQUENCY RESPONSE	CD:	17-20KHz +/-0.4dB	17-20KHz +/-1dB	0dB OUTPUT (TCD782,TRK2/3/7)
	USB:	17-16KHz +/-0.2dB	17-16KHz +/-1dB	0dB OUTPUT (TCD781,TRK1/4/16)
(4) DE-EMPHASIS	CD:	-20dB +/-0.2dB	-20dB +/-1dB	16KHz, -20dB(TCD782,TRK2/14)
(5) CHANNEL SEPARATION(*2)	CD, USB:	93dB	85dB	1KHz, 0dB (TCD782,TRK2/9/11)
(6) THD+N (*1)	CD:	0.008%	0.015%	1KHz, 0dB (TCD782,TRK2)
	USB:	0.007%	0.015%	1KHz, 0dB (TCD782,TRK2)
(7) S/N (*2)	CD:	126dB	90dB	1KHz, 0dB (TCD782,TRK2/8)
	USB:	85dB	80dB	1KHz, 0dB (TCD782,TRK2/8)
(8) DYNAMIC RANGE (*2)	CD:	92dB	88dB	1KHz, -60dB (TCD782,TRK18)
(9) XLR OUTPUT LEVEL		8.22dBm (2V)+/- 0.5dB	8.22dBm (2V)+/-1dB	KHz, 0dB (TCD782,TRK2)
NOTE : *1 : WITH 20KHz LOW PASS FILTER. *2 : WITH 20KHz LOW PASS FILTER, "IHF-A" WEIGHTED.				

3. CD SEARCHING TIME : (TEST DISC: TCD-792)

ITEM	TYPICAL	LIMIT	CONDITION
(1) SHORT ACCESS TIME	2Sec	4Sec	PLAY NEXT TRACK
(2) LONG ACCESS TIME	4Sec	6Sec	TRACK 1 TO 20,20 TO 1

4. CD PLAYABILITY :

ITEM	TYPICAL	LIMIT	CONDITION
(1) INTERRUPTION	1mm	0.7mm	TCD-725
(2) BLACK DOT	1mm	0.6mm	TCD-725
(3) FINGER PRINTS	75um	65um	TCD-725
(4) ECCENTRICITY	140um	140um	TCD-712 W/O TRACK JUMP
(5) VERTICAL DEVIATION	1mm	0.5mm	TCD-731R
(6) SCRATCH	2mm	1.2mm	TCD-721 W/O TRACK JUMP

5. MP3 FORMAT :

Disc Format	Applicable file extensions	mp3 . MP3 . mP3 . Mp3
	ISO9660	max. 63 characters
	Joliet	max. 63 characters
	CD-ROM sector format	mode-1 only
	Max. number of Folders	255
	Max. number of files	max. 999 files (* note #1)
USB Format	File System	FAT 12/16/32
	Applicable file extensions	mp3. MP3. mP3. Mp3
	Max. number of Folders	999
	Max. number of files	max. 999 files
MP3 Format	MPEG 1 Layer 3 standard (ISO/IEC 11172-3), which provides for single channel ('mono') and two-channel ('stereo') coding at sampling rates of 32, 44.1 and 48kHz.	32/40/48/56/80/96/112/128/160/192/224/256/320 kbps Xing/VBRI VBR
	MPEG 2 Layer 3 standard (ISO/IEC 13818-3), which provides for similar coding at sampling rates of 16, 22.05 and 24 kHz.	32/40/48/56/64/80/96/112/144/160 Kbps Xing/VBRI VBR
	MPEG 2.5 Layer 3 standard, which provides for similar coding at sampling rates of 8, 11.025 and 12 kHz.	32/40/48/56/64/80/96/112/144/160 Kbps Xing/VBRI VBR
Disc Writing Method	Disc at Once and Track at Once	
	Multi Session	If the 1 st session is CDDA, you can playback Only CDDA track, If the 1 st session is MP3, you can playback only MP3 file.

NOTE #1: max.255 files each folder.

NOTES : Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

